Se cuirty Section 4 Chapter 8

[P2] Known- plaintext attack -> 7- letters known - For M un-Known possible 26! > For 7 Lotton Known (26-7)! = 19!We reduce possibly by $26! - 19! = 10^9$

P3 Yes, It's possible to Know the key of cipher 1,2 (Shift)

64-bit input 1010 0000 Ti) reverse 0000 0101 Scramblen (no thing)

(a) result often n=3 [0000 0101][0000 0101]---

(b) the input [1010 0000] ---- 1010 6001 the vosult [0000 0101]--- 1000 0101

(C) Scrembler who reverse order المي بين للخوسيين Step before scrambber [0000 0101] ---- 1000 6101 ofter 1010 0001 --- [1010 6000] Stop 2 before Scrambler 1000 0101 --- [0000 0101] offor [1010 00007--- 1010 0001 Stop 3 [0000 0101] -- 1000 0101 after 10100001 -- [10100600] P6 (a) 100 100 100 011 011 (b) She con Know the pottern (c) m(1) = 100M(2) = +00m(3) = |60→ IV = c(0) = 111 → ((1) = Ks ((0) (m(1)) $= \chi_{c}(DII) = 100$ $\rightarrow C(2) = K_s (c(1) \oplus m(2))$ = Ks (000) = 110 → C(3) = Ks (C(2) D m(3))

= Ks (010) = 101

$$0 = P.4 = 33$$

$$Z = (P-1)(9-1) = 20$$

$$T_{B} = \frac{9^{5}}{9^{5}} \frac{0}{0} P$$

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$$S = T_{B} \frac{0}{0} P$$

$$S' = T_{A} \frac{0}{0} P$$

$$S = \left[\frac{9^{5}}{9^{5}} \frac{0}{0} P\right] \frac{0}{0} P$$

$$S = \left[\frac{9^{5}}{9^{5}} \frac{0}{0} P\right] \frac{5}{0} \frac{10}{0} P$$

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